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CLAIMS

- 1. A carriage for a roller skate in which each wheel is independently suspended on the carriage by a resilient suspension which includes means for constraining the wheel to follow a predetermined path with respect to a body of the carriage upon deflection of the resilient suspension, wherein the said path includes a component of motion directed towards the rear of the carriage with respect to the direction of travel thereof.
- 2. A roller skate carriage as claimed in Claim 1, in which the path of movement of a wheel upon displacement of the suspension is non-linear.
- 3. A roller skate carriage as claimed in any preceding Claim, in which the path of the suspension travel of a wheel varies in direction with a variation in the magnitude of the excursion from a static load position.
 - 4. A roller skate carriage as claimed in any of Claims

 1, 2 or 3, in which the said constraining means comprise
 one or more trailing arm for respectively carrying each
 wheel.
 - 5. A roller skate carriage as claimed in Claim 4, wherein the orientation of each trailing arm in its rest position can be varied.

6. A carriage for a roller skate in which each wheel is independently suspended on the carriage by a resilient suspension, which resilient suspension includes means for constraining the wheel to follow a predetermined path with respect to a body of the carriage upon deflection of the resilient suspension, in which the constraining means comprise one or more pivoted arm for respectively carrying each wheel, wherein the next position of each arm can be varied.

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- 7. A roller skate carriage as claimed in any preceding claim, in which the resilient action of the suspension is exerted by a compression spring.
- 15 8. A roller skate carriage as claimed in Claim 7, in which the compression spring is a coil of metal or plastics.
- 9. A roller skate carriage as claimed in Claim 7, in 20 which the compression spring is a chamber of compressed gas having a piston sealingly displaceable within it.
- 10. A roller skate carriage as claimed in any of Claims-1 to 6, in which the resilient suspension includes a leaf 25 spring.
 - 11. A roller skate carriage as claimed in Claim 10, in which the leaf spring is generally U-shape and the wheel

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is carried by one arm thereof via an axle and a bearing permitting the wheel to rotate with respect to the leaf spring.

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12. A roller skate carriage as claimed in any of Claims—

1 to 6, in which the resilient action of the suspension
is exerted by a torsion spring.

13. A roller skate carriage as claimed in any one of the control o

- 14. A roller skate carriage as claimed in Claim 13, wherein the torsion spring is a helical or spiral coil spring.
- 15. A roller skate carriage as claimed in any precedingclaim, in which the suspension for each wheel includes a resilient member acting both to exert a resilient biasing force urging the wheel towards one end of its path of suspended travel with respect to the carriage and as a wheel guide member at least partly defining the path of travel of the wheel.
- 25 16. A roller skate carriage as claimed in any preceding claim, in which the resilient suspension of each wheel thereof is substantially undamped.

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17. A roller skate carriage as claimed in any precedingclaim, in which the wheels are carried by respective
pivoted trailing arms mounted for rotation about
respective axes pivoting substantially parallel to the
axis of rotation of the wheel carried thereby.

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18. A roller skate carriage as claimed in Claim 17, in which each said pivoted trailing arm houses a respective torsion spring urging the arm to turn in a first direction about a first axis with respect to the carriage body.

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19. A roller skate carriage as claimed in any preceding claim, in which the resilient force acting on each wheel is independently adjustable by respective adjustment means.

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20. A roller skate carriage as claimed in Claim 19, in which the adjustment of the resilient suspension force is 20 effected by adjustment of the angular position of a locating member held in place by frictional engagement with a fixed part of the carriage or a member carried thereby.

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21. A roller skate carriage as claimed in any preceding claim, in which there are provided abutment stops on the body of the carriage, engaged by a movable part of the suspension whereby to determine the maximum excursion

travel of a wheel suspension.

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22. A roller skate carriage as claimed in Claim 21, in which the said abutment stops are adjustable whereby to adjust the said maximum excursion position of a wheel.

23. A roller skate carriage as claimed in Claim, in which the body of the carriage includes or comprises at least one elongate plate-like member on which a plurality of individual wheel suspensions are carried with the wheels in-line with one another.

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24. A roller skate carriage as claimed in any preceding claim, in which the wheels are arranged in-line with one another along the body of the carriage in a single line.

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25. A roller skate carriage as claimed in claims of Claims land in the wheels are arranged in co-axial pairs on the body of the carriage.

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26. A roller skate comprising a carriage as claimed in Claum , any preceding claim, secured fixed and attached to a boot for receiving and supporting the foot of a user.

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